



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

RB T102137-111
Job Sheet 167753



Part No: RB T102137-111

Job Qty: 1 ea

Part Name: Lifting Tool



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 11/6/17

Job Tracking No:

Due Date: 1/12/18

Created By: Chantal Lavoie

Type: Stock

Description:

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	1 pcs		1/12/18	0.00	0.00	Purchasing		4/18/06/11
110	Packaging	1 pcs		1/12/18	0.00	0.00	Packaging2		4/18/06/11
120	QC	1 pcs		1/12/18	0.00	0.00	QC6		38
130	Packaging	1 pcs		1/12/18	0.00	0.00	Packaging3	DAS 21	MD 9-89
140	QC21-SA	1 Ea		1/12/18	0.00	0.00	QC21	9-89	OCT 09 2018

Part Op 100 - ISSUE P/O: 038271. SUPPLIER: METEC MANUFACTURE, RB T102137-111 AS PER DWG C
Descriptions: OF C IS REQUIRED

NOV 06 2017

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
100-Purchasing	RB T102137-111P	1	0	0	0

5079912

Part Specifications

Specifications could not be found.

→ Plex 11/6/17 12:03 PM dart.lavoie.chantal



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL: 1 813 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S079913



Part: RB T102137-111

Job No: 167753

Serial No/Batch: S079913

Revision: A

Inspector:

Exp Date:

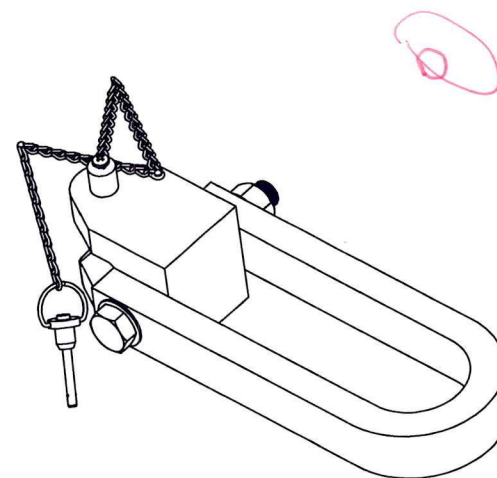
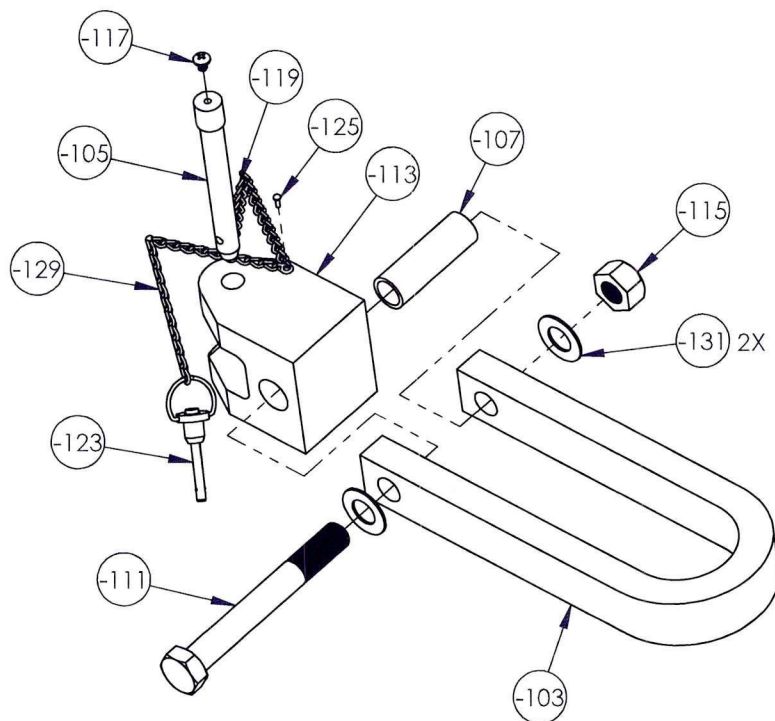
Instructions:

Date: 06/11/18

Metec

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
A	14-0208	DELETED NOTE 2 SHEET ONE. -103 CH'D ENGRAVE NOTE ONE SIDE TO READ ENGRAVE T/N, S/N, "MADE IN USA", THE OTHER SIDE TO READ ENGRAVE "CAPACITY 12000LBS" PROOF LOAD 24000LBS TO FIT.	11/4/2014	RJC	JAG



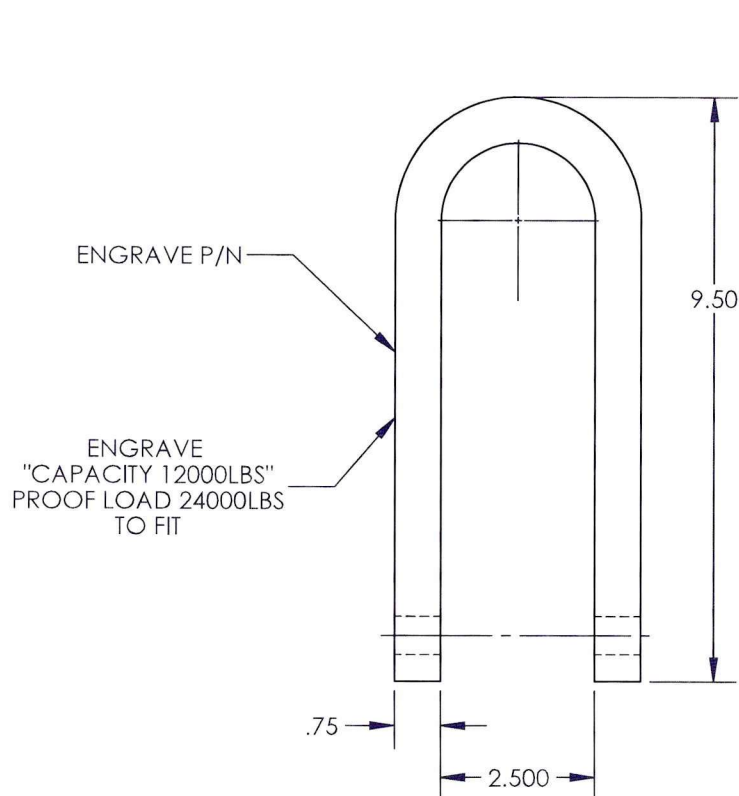
NOTES
1. TORQUE -115 NUT TO 30-55 FT.LBS.

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			-103	1	STRAP	4140	1-1/4 X 4-1/8 X 9-5/8 (SAME AS RB T102140-103)	2
			-105	1	PIN	4140	Ø5/8 X 4-3/4	3
			-107	1	SLEEVE	4130	Ø7/8 X 2-5/8 (SAME AS RB T102140-107)	4
		B/O	-111	1	HEX HEAD CAP SCREW	Gr. 8 CAD PLATED	5/8-18 UNF X 5 (NAS6610-64)	1
			-113	1	CLEVIS	4140	2-1/2 X 3 X 3-5/8	5
		B/O	-115	1	FLANGE NUT	CAD PLATED STEEL	5/8-18 UNF (NAS1291-10)	1
		B/O	-117	1	PHILLIPS MACH. SCREW	PLATED STEEL	10-24 X 1/4 MCMASTER-CARR #90272A238	1
		B/O	-119	1	CHAIN	BRASS	1/0 SIZE X 10" LONG (NAS1455B00-10)	1
		B/O	-123	1	BALL LOCK PIN	PLATED STEEL	Ø3/16 X 1" USABLE (NAS1333S6S10D)	1
		B/O	-125	1	DRIVE SCREW	PLATED STEEL	Ø.100 X 1/4 (MS21318-15)	1
		B/O	-129	1	CHAIN	BRASS	1/0 SIZE X 6" LONG (NAS1455B00-6)	1
		B/O	-131	2	FLAT WASHER	CAD PLATED STEEL	Ø5/8 ID (MS20002C10)	1

DART AEROSPACE	
TITLE LIFTING TOOL	
DWG NO. RB T102137-111	
REV A	
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
DRAWN BY: DUERFELDT APPROVED: <i>J. Gilbert</i> HEAT TREAT FINISH SPEC USED ON MODEL BELL 429	
SCALE 1:4	DATE 10/1/2014 SHEET 1 OF 6

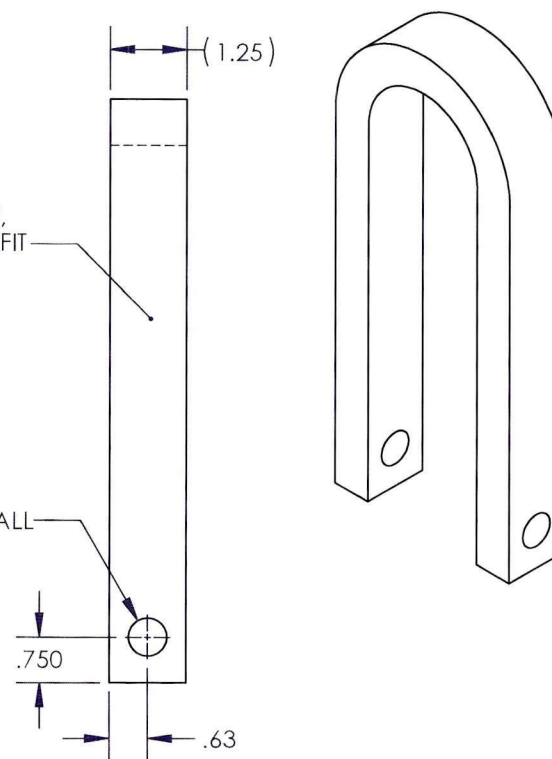
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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
A	14-0208	-103 CH'D ENGRAVE NOTE ONE SIDE TO READ ENGRAVE T/N, S/N, "MADE IN USA", THE OTHER SIDE TO READ ENGRAVE "CAPACITY 12000LBS" PROOF LOAD 24000LBS TO FIT.	11/4/2014	RJC	JAG



ENGRAVE T/N, S/N,
"MADE IN USA" TO FIT

Ø .6260 THRU ALL
Ø .6245



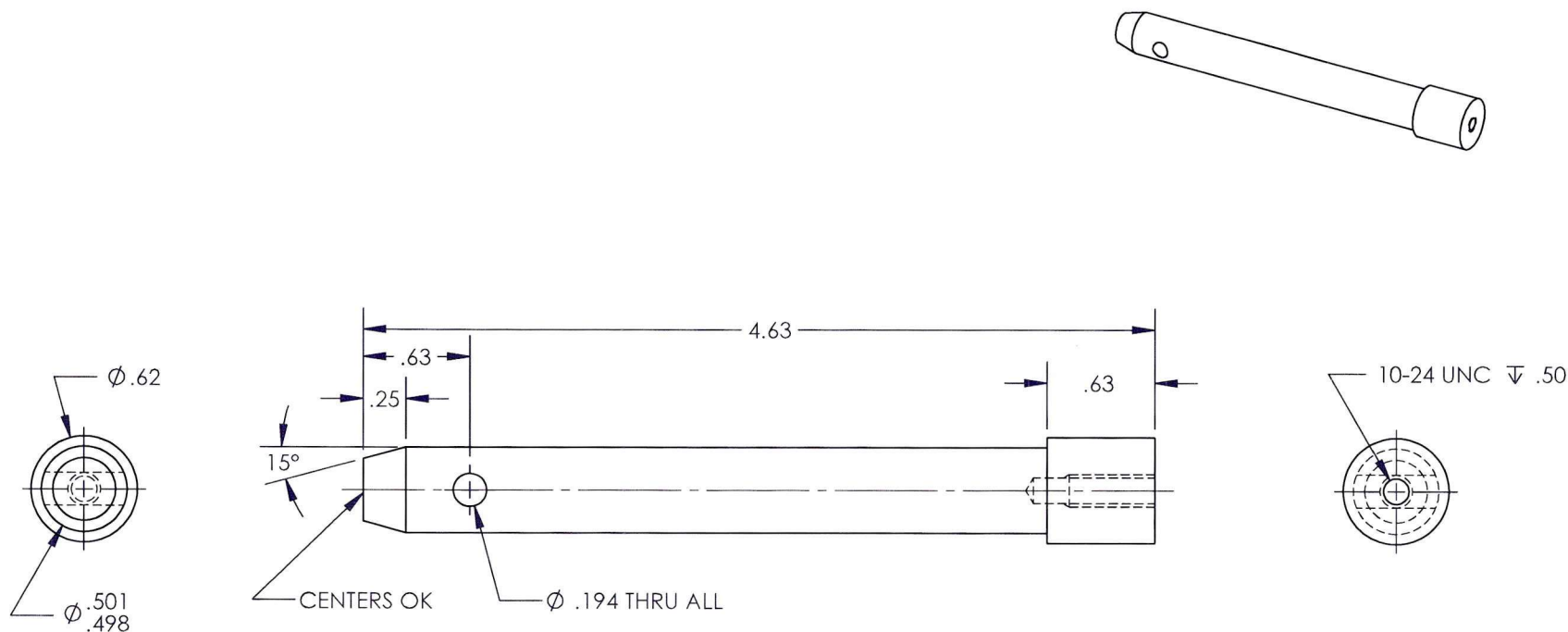
-103

STRAP

DART AEROSPACE	
TITLE LIFTING TOOL	
DWG NO. RB T102137-111-103	REV A
MAT'L 4140	DRAWN BY: DUERFELDT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>J. Gilbert</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT RC 32-38
.XX ± .01 ANGLES ± .5°	FINISH CAD PLATE YELLOW
.X ± .1	SPEC QQ-P-416F, TYPE II, CLASS II
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	BELL 429
SCALE 1:3	DATE 10/1/2014 SHEET 2 OF 6

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REVISIONS			
REV	ECR	DESCRIPTION	DATE



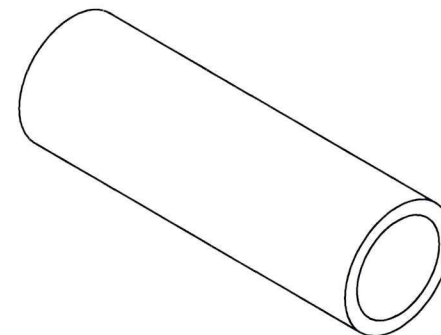
(-105)

PIN

DART AEROSPACE	
TITLE LIFTING TOOL	
DWG NO. RB T102137-111-105	REV A
MAT'L 4140	DRAWN BY: DUERFELDT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>J. Gilbert</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT RC 46-50
.XX ± .01 ANGLES ± .5°	FINISH CAD PLATE YELLOW
.X ± .1	SPEC QQ-P-416F, TYPE II, CLASS II
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	BELL 429
SCALE 1:1	DATE 10/1/2014
SHEET 3 OF 6	

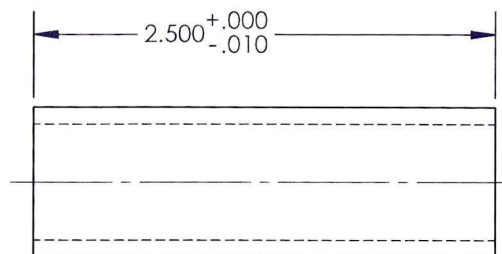
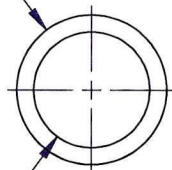
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REVISIONS			
REV	ECR	DESCRIPTION	DATE INITIAL APPROVED



$\phi .811^{+.000}_{-.002}$

$\phi .627^{+.000}_{-.002}$



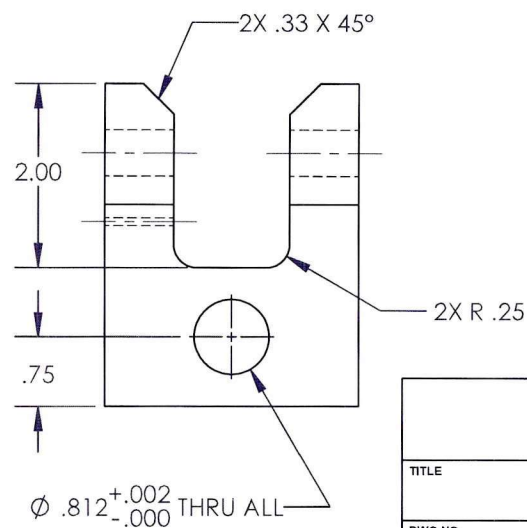
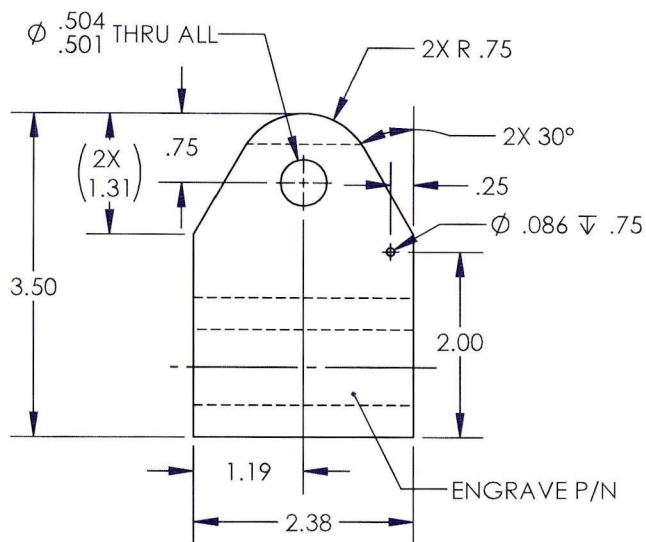
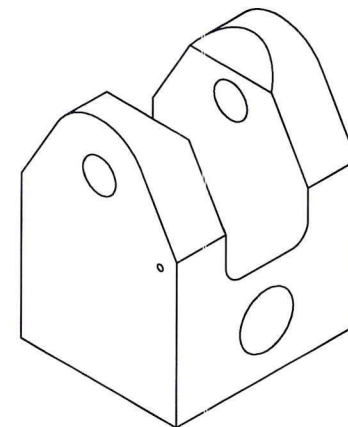
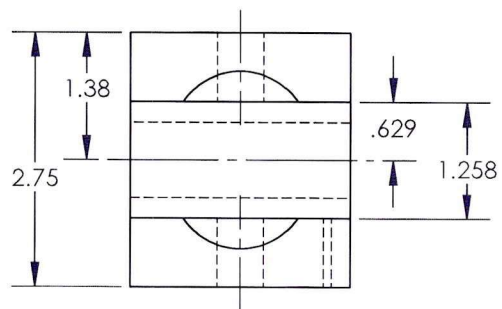
NOTE:
SAME PART AS T102140-107

(-107)
SLEEVE

DART AEROSPACE	
TITLE LIFTING TOOL	
DWG NO. RB T102137-111-107	REV A
MAT'L 4130	DRAWN BY: DUERFELDT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>J. Gilbert</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT RC 32-37
.XX ± .01 ANGLES ± 5°	FINISH CAD PLATE YELLOW
.X ± .1	SPEC QQ-P-416F, TYPE II, CLASS II
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	BELL 429
SCALE 1:1	DATE 10/1/2014 SHEET 4 OF 6

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REVISIONS						
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED	



(-113)

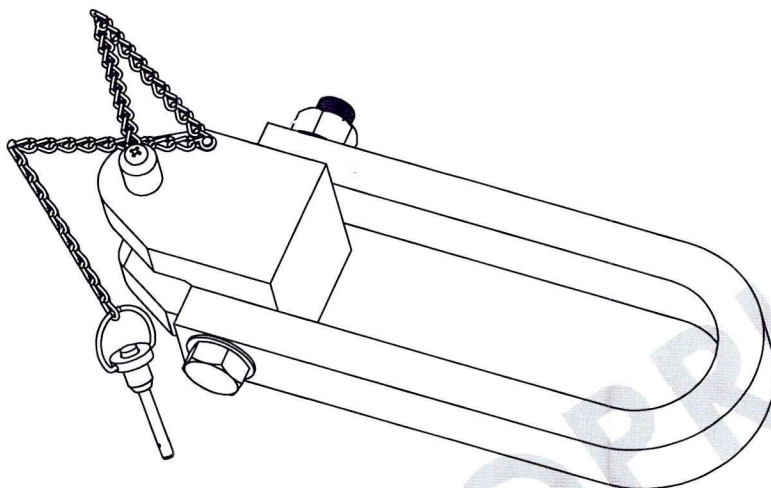
CLEVIS

DART AEROSPACE	
TITLE LIFTING TOOL	
DWG NO. RB T102137-111-113	REV A
MAT'L 4140	DRAWN BY: DUERFELDT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>J. Gilbert</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT RC 32-38
.XX ± .01 ANGLES ± .5°	FINISH CAD PLATE YELLOW
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC QQ-P-416F, TYPE II, CLASS II
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
SCALE 1:2	DATE 10/1/2014
SHEET 5 OF 6	

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REVISIONS						
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED	

FIRST ARTICLE WEIGHT TEST



INSPECTION & TESTING PROCEDURES FOR THE RB T102137-111 LIFT TOOL. THIS ASSEMBLY SHOULD BE INSPECTED BEFORE EACH USE. REPLACE ANY ITEMS THAT ARE DAMAGED OR SUSPECTED OF DAMAGE BEFORE USING!

FIRST ARTICLE WEIGHT TEST

1. AFTER INSPECTION, PLACE LIFTING TOOL IN AN APPROPRIATE FIXTURE USE BALL LOCK PIN TO LOCK INTO FIXTURE.
2. APPLY 24,000 lbs. , FOR AT LEAST 5 MINUTES, CONTINUALLY CHECKING FOR CRACKS, DEFLECTION, OR DISTORTION.
3. REMOVE WEIGHT AND RE-INSPECT TOOL, CHECKING FOR STRESS CRACKS, BENDING, OR DISTORTIONS.

INSPECTOR DAS 9 9-89

TESTER Matthew Locair

S.N. 5079913

DATE 6/19/2018

 DART AEROSPACE 190 S. Danebo Ave., Eugene, OR. 97402 1-800-556-4166 e-mail: sales@dartaero.com dartaerospace.com			
TITLE LIFTING TOOL			
DWG NO. RB T102137-111		REV A	CUSTOMER 1 OF 1
SCALE 1:2	DATE 10/1/2014	SHEET 6 OF 6	



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO038271**

Supplier: MEM001-VC
Metec Metal Technology Inc.
20 Terry Fox Drive PO Box 781
Vankleek Hill
ON
K0B 1R0 Canada
Phone: 613 678 3957
Fax: 613 678 3956

Attention: Walz, Shigi

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO038271
PO Date: 11/6/17
Due Date: 6/8/18
Purchase Order Revision:
Revision Date:
Ship-To Contact: Baker, Diane
Phone: dbaker@dartaero.com

Via: Ground
Pynt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Part	Supplier Part No	Item No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
2	RB T102137-111P			Lifting Tool As Per Dwg RB T102137-111 Rev. A	Firmed	6/8/18	1 pcs	0 pcs	1 pcs	\$3,201.80/pcs	\$3,201.80

Line Item Note job# 167753

Grand Total: \$3,201.80

Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 6/11/18 11:42 AM dart.Lussier.Patrick



20 Terry Fox Drive
Vankleek Hill, Ontario K0B 1R0 , Canada
Tel: (613) 678-3957
Fax: (613) 678-3956

Delivery Slip No.: 22514
Date: Jun 08, 2018
Page: 1

Sold to: Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, Ontario K6A 1K7	Ship to: Dart Aerospace Ltd. Att. Linda Lacelle 1270 Aberdeen Street Hawkesbury, Ontario K6A 1K7
Order No.: PO038271	Sold By: Walz, Christian D.
Shipped By: pick up	Ship Date: Jun 08, 2018

Description	Bin Loc	Unit	Quantity ordered	Quantity shipped	Quantity on B/O
Hanger Simulator (412-240-033-10), drawing # RBT400279		Each	2		
Lifting Tool, drawing # RB T102137-111 Rev.A		Each	1	1	
The delivered goods must be inspected upon receipt to confirm compliance. Should there be discrepancies please notify METEC within 30 days of delivery. The goods are otherwise deemed accepted.					

DAS
38
9-88

Received by Pro Devine SP18-06-11 - Thank you for your order!



20 Terry Fox Drive, Vankleek Hill, Ontario K0B 1R0

Tel. (613) 678-3957 & (613) 678-2782 Fax (613) 678-3956 metec@metec.ca

CERTIFICATE OF CONFORMITY

SOLD TO:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ont.
K6A 1K7

SHIPPED TO:

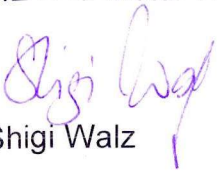
same

Quantity	Part Number	Part Name	P.O. Number
1	RB T102137-111	Lifting Tool	38271

We hereby certify that the above parts were made in conformance with applicable drawings.

DAS
38
9-88

METEC Metal Technology Inc.


Shigi Walz

Vankleek Hill, June 8, 2018